

THE INSECT PEST SURVEY
BULLETIN

Volume 20

Supplement to No. 7

September 20 , 1940

BUREAU OF
ENTOMOLOGY AND PLANT QUARANTINE
UNITED STATES
DEPARTMENT OF AGRICULTURE
AND
THE STATE ENTOMOLOGICAL
AGENCIES COOPERATING



Digitized by the Internet Archive
in 2016

https://archive.org/details/insectpestsurve2071wash_0

ALFALFA WEEVIL SCOUTING, 1940

By J. C. Hamlin, senior entomologist
Bureau of Entomology and Plant Quarantine
United States Department of Agriculture

Scouting for alfalfa weevil during 1940 was limited by closing of the alfalfa weevil laboratory consequent upon completion of the practical aspects of the problem. The work performed, in cooperation with State officials, included (1) scouting along the Union Pacific Railroad right-of-way through Kansas and Nebraska and near its eastern terminus in Iowa, as well as in several Nebraska counties that received alfalfa hay from weevil-infested areas of the Great Basin during temporary inoperation of Nebraska's alfalfa weevil quarantine during the winter of 1935; (2) a survey of the Saratoga and Encampment areas of Carbon County, Wyo.

The scouting in Kansas, Nebraska, and Iowa involved taking 112,100 sweeps in 110 fields located in 28 counties. The results were negative and are presented in table 1.

Table 1.--Detailed data on special scouting for alfalfa weevil in the Midwest from May 19 to 26, 1940

County	: Fields : swept	: Area of all : fields swept	: Sweeps	: Fields : infested
	: Number	: Acres	: Number	: Number
<u>Kansas:</u> ^{1/}	:	:	:	:
Ellis-----	: 7	: 69	: 8,900	: 0
Ellsworth-----	: 3	: 32	: 2,900	: 0
Saline-----	: 7	: 96	: 7,050	: 0
Dickinson-----	: 3	: 35	: 3,400	: 0
Geary-----	: 1	: 5	: 1,050	: 0
Riley-----	: 3	: 82	: 3,550	: 0
Pottawatomie-----	: 7	: 55	: 6,250	: 0
Shawnee-----	: 5	: 52	: 5,400	: 0
Wyandotte-----	: 3	: 16	: 4,250	: 0
Leavenworth-----	: 2	: 50	: 2,500	: 0
Douglas-----	: 1	: 40	: 1,700	: 0
Jefferson-----	: 2	: 39	: 2,300	: 0
Marshall-----	: 4	: 46	: 5,500	: 0
<u>Iowa:</u>	:	:	:	:
Pottawattamie-----	: 6	: 42	: 4,950	: 0
Harrison-----	: 4	: 73	: 4,150	: 0
<u>Nebraska:</u> ^{2/}	:	:	:	:
Douglas-----	: 2	: 62	: 2,800	: 0
Lancaster-----	: 5	: 100	: 6,000	: 0
Saunders-----	: 2	: 55	: 1,600	: 0
Dodge-----	: 3	: 97	: 2,650	: 0
Colfax-----	: 2	: 22	: 1,050	: 0
Platte-----	: 2	: 15	: 1,450	: 0
Merrick-----	: 4	: 152	: 3,400	: 0
Valley-----	: 7	: 260	: 5,300	: 0
Hall-----	: 2	: 15	: 1,700	: 0
Buffalo-----	: 6	: 433	: 6,100	: 0
Dawson-----	: 6	: 550	: 6,200	: 0
Lincoln-----	: 6	: 186	: 5,450	: 0
Keith-----	: 5	: 150	: 4,550	: 0

^{1/} L. M. Gates, of the Nebraska Department of Agriculture and Inspection, cooperated in this work.

^{2/} R. G. Yapp, of the Kansas Entomological Commission, cooperated in this work.

In Carbon County, Wyo., 5,650 sweeps were taken in 11 fields and 4 of these fields were found to be infested. The purpose was to determine whether the alfalfa weevil occurred in rather isolated areas of a county already known to support infestations. The sweeping in the Saratoga area showed a light but general infestation, the alfalfa weevil being taken from 3 of 4 fields swept. Our survey methods showed only 1 field infested of the 7 swept in the Encampment area but intensified sweeping would doubtless reveal a general and very light weevil infestation there also. The results are summarized in table 2.

Table 2.--Summary of scouting for alfalfa weevil in the Saratoga and Encampment areas of Carbon County, Wyo., June 28, 1940

Area	:Fields :swept	:Area of all :fields swept	:Height of : alfalfa	: :Sweeps	:Fields :infested
	: <u>Number</u>	: <u>Acres</u>	: <u>Inches</u>	: <u>Number</u>	: <u>Number</u>
Saratoga----	: 4	: 70	: 12-36	: 2,700	: 3
Encampment--	: 7	: 63	: 12-30	: 2,950	: 1
	:	:	:	:	:
Total-----	: 11	: 133	: 12-36	: 5,650	: 4
	:	:	:	:	:

No reports have been received concerning scouting in other States during 1940.

UNIVERSITY OF FLORIDA



3 1262 09241 5297